The Road Inventory of Minidoka National Wildlife Refuge Rupert, ID





Prepared By: Federal Highway Administration Central Federal Lands Highway Division April 2013



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INTRODUCTION

The Transportation Equity Act for the 21st Century (Public Law 105-178) created the Refuge Roads Program. Refuge roads are those public roads that provide access to or within a unit of the National Wildlife Refuge System and for which title and maintenance responsibility is vested in the United States Government. Funds from the Highway Trust Fund are available for refuge roads and can be used by the station to pay the cost of:

- (a) Maintenance and improvements of refuge roads.
- (b) Maintenance and improvements of:
 - (1) Adjacent vehicle parking areas
 - (2) Provision for pedestrians and bicycles and
 - (3) Construction and reconstruction of roadside rest areas that are located in or adjacent to wildlife refuges
- (c) Administrative costs associated with such maintenance and improvements.

The funds available for refuge roads are to be disbursed based on the relative needs of the various refuges in the National Wildlife Refuge System, and taking into consideration:

- (a) The comprehensive conservation plan for each refuge;
- (b) The need for access as identified through land use planning; and
- (c) The impact of land use planning on existing transportation facilities.

To determine the relative needs of the U.S. Fish and Wildlife Service, the Federal Highway Administration (FHWA) was asked to inventory all public access roads and parking lots and provide a condition assessment of each. In 2008 the inventory was expanded to include administrative (service use only) roads and parking lots. An FHWA representative meets with refuge personnel to identify route segments and assign route numbers and functional classifications (See Appendix) for each route. All roads and parking lots are mapped using Trimble GPS units and visually assessed for condition using the RSL method of evaluation developed at Utah State University (See Appendix). Culverts, Gates, Guardrails and Low Water Crossings are also mapped and inspected for any obvious defects.

An estimate is provided, in year 2008 dollars, based on the condition determined by the rating system. Estimates are based upon data and location factors from the 2008 RS Means Heavy Construction Cost Data 22nd Annual Edition. Cost estimates should be evaluated on a case-by-case basis when being used for programming purposes.

Native Surfaced roads and parking lots already inventoried will not be re-inventoried and will not appear individually in report chapters 5, 6 and 8. Mileages and areas of native surfaced roads and parking lots will still appear in all summaries in the report and will remain in the road inventory database. In addition to this report, the FHWA will furnish the condition ratings of each route and segment to the Fish and Wildlife Service in a Microsoft Access database so the data can be included in their Real Property Inventory.

Minidoka NWR - 14614 Summaries

Route Miles and Percentages by Functional Class and Condition

Condition Rating (Based on RSL)*

	Exce	ellent	Go	ood	F	air	Po	oor	Fai	iled	TOTAL
F. C.	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES
I	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
II	0.17	0.8%	11.17	53.1%	2.20	10.5%	6.78	32.2%	0.73	3.5%	21.05
III	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
IV	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
٧	0.00	0.0%	0.00	0.0%	0.27	100.0%	0.00	0.0%	0.00	0.0%	0.27
Totals	0.17	0.8%	11.17	52.4%	2.47	11.6%	6.78	31.8%	0.73	3.4%	21.32

^{*}For a description of condition ratings for the various surface types see the Appendix.

Route Miles and Percentages by Surface Type and Condition

Paved Condition Rating [Condition(RSL)]

	Exce	ellent	Go	od	Fa	air	Po	oor	Fai	iled	TOTAL
Surface	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES
AS	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
CO	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
Totals	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00

Unpaved Condition Rating [Condition(RSL)]

							\ /1				
	Exce	ellent	Go	od	F	air	Po	oor	Fai	iled	TOTAL
Surface	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES
GR	0.17	1.0%	8.56	49.1%	1.65	9.5%	6.34	36.3%	0.73	4.2%	17.45
NA	0.00	0.0%	2.36	65.2%	0.82	22.7%	0.44	12.2%	0.00	0.0%	3.62
PR	0.00	0.0%	0.25	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.25
Totals	0.17	0.8%	11.17	52.4%	2.47	11.6%	6.78	31.8%	0.73	3.4%	21.32

Square Footage (Parking Areas)

Condition Rating

					Conditio	n Rating					
	Exce	ellent	Go	ood	F	air	Po	oor	Fai	led	Total
Surface	SQ FT	%	SQ FT	%	SQ FT	%	SQ FT	%	SQ FT	%	SQ FT
AS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
СО	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
GR	7,719	22.7%	0	0.0%	26,329	77.3%	0	0.0%	0	0.0%	34,048
NA	0	0.0%	0	0.0%	7,531	100.0%	0	0.0%	0	0.0%	7,531
PR	0	0.0%	0	0.0%	1,423	100.0%	0	0.0%	0	0.0%	1,423
Totals	7,719	18.0%	0	0.0%	35,283	82.0%	0	0.0%	0	0.0%	43,002

Minidoka NWR - 14614 **Summaries**

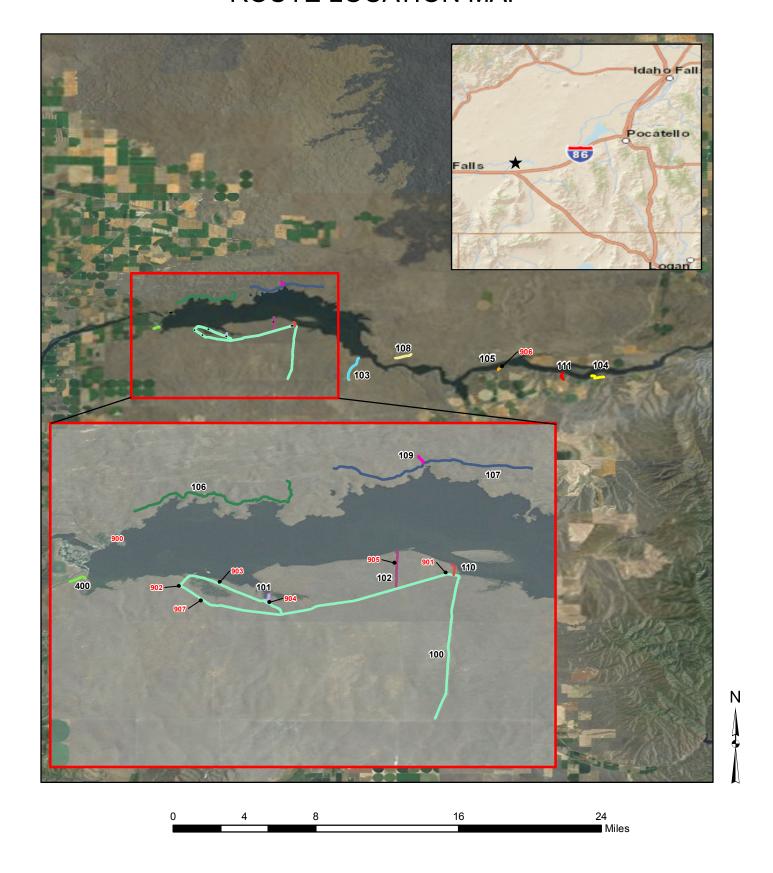
Route Miles and Percentages by Use Type and Condition Road Condition Rating: Public/Administrative Use

USE	Exce	ellent	Go	od	Fa	air	Po	or	Fai	led	TOTAL
TYPE	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES
Public (FC I-III)	0.17	0.8%	11.17	53.1%	2.20	10.5%	6.78	32.2%	0.73	3.5%	21.05
Admin (FC IV-V)	0.00	0.0%	0.00	0.0%	0.27	100.0%	0.00	0.0%	0.00	0.0%	0.27
Totals	0.17	0.8%	11.17	52.4%	2.47	11.6%	6.78	31.8%	0.73	3.4%	21.32

Parking Condition Rating: Public/Administrative Use

USE	Exce	ellent	Go	od	Fa	air	Po	oor	Fail	led	Total
TYPE	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft	%	Sq Ft
Public	7719	18.0%	0	0.0%	35283	82.0%	0	0.0%	0	0.0%	43,002
Admin	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
Totals	7,719	18.0%	0	0.0%	35,283	82.0%	0	0.0%	0	0.0%	43,002

Minidoka National Wildlife Refuge ROUTE LOCATION MAP



Minidoka NWR - 14614 Route Identification List

Shading Color Key:

White = Paved Routes

Yellow = Unpaved Routes

RTE#	Asset Number	ROUTE NAME	RTE MI	ROUTE DESCRIPTION	PAVED MI	UN- PAVED MI	LANES	FC
100	10051488*	Bird Island Road	9.44	From Baseline Road to end of loop	-	9.44	2	2
101	=	Area C Access Road	0.17	From Bird Island Road (Route 100) to end of route	-	0.17	1	2
102	=	Area B Access Road	0.82	From Bird Island Road (Route 100) to end of route	-	0.82	1	2
103	10051418*	Smith's Spring Road	1.36	From Baseline Road to end of route	-	1.36	1	2
104	10041986	Tule Island Access Road	0.70	From Barkdull Road to end of loop	-	0.70	1	2
105	10041979	Gifford Springs Road	0.17	From Refuge boundary to Gifford Springs Parking (Route 906)	-	0.17	2	2
106	10042029	North Refuge Road 1	3.47	From West Refuge boundary to North Refuge boundary	1	3.47	1	2
107	10042029	North Refuge Road 2	3.33	From West Refuge boundary to East Refuge boundary	1	3.33	1	2
108	-	North Refuge Road 3	0.73	From West Refuge boundary to North Refuge boundary	ı	0.73	1	2
109	10054134	Minidoka Road	0.17	From North Refuge boundary to North Refuge Road 2 (Route 107)	1	0.17	1	2
110	10054133	Disability Hunter Access Road	0.25	From Bird Island Road (Route 100) to end of loop	-	0.25	1	2
111	10064187	Call Pump Access Road	0.44	From South Refuge boundary to pump	-	0.44	1	2
400	10054148	Southern Dam Access Road	0.27	From West Refuge boundary to dam	-	0.27	1	5

Minidoka NWR - 14614

Route Identification List (Parking)

Shading Color Key:

White = Paved Routes	
Green = Unpaved Routes	

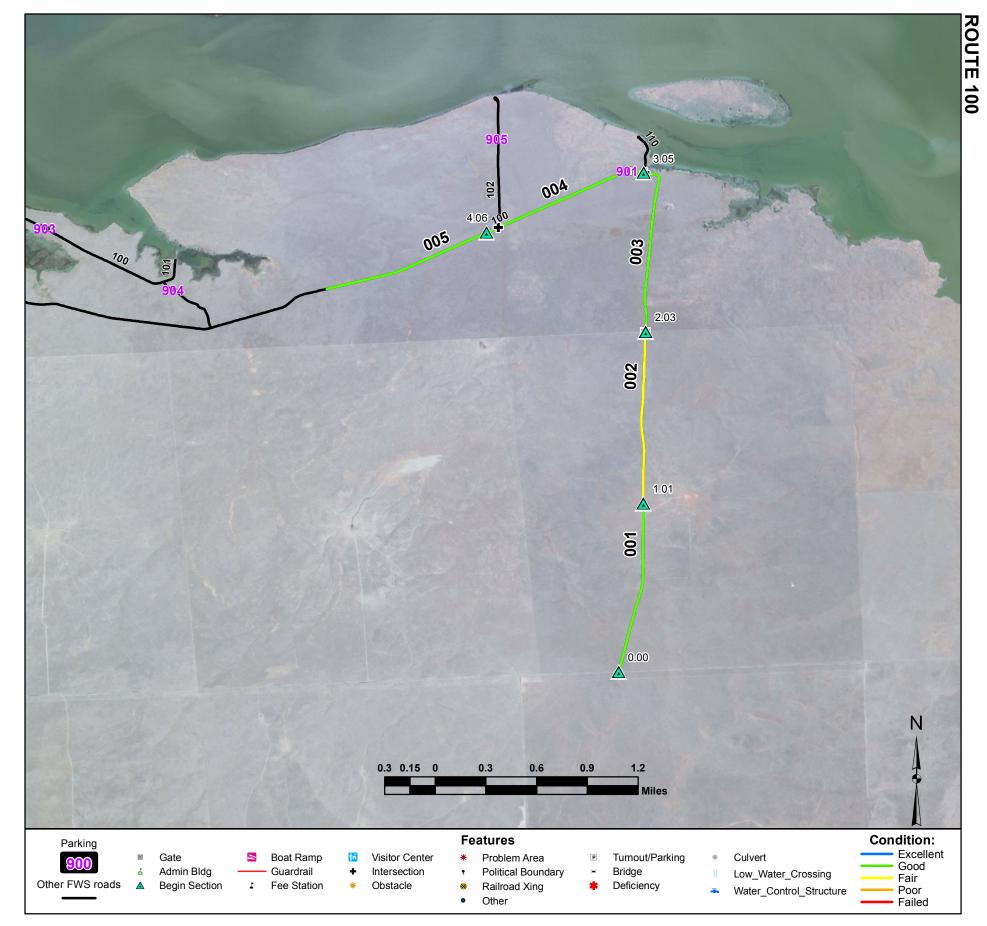
Route #	Asset Number	ROUTE NAME	Area (Sq Ft)	ROUTE DESCRIPTION	Surface Type
900	10042161	Office Parking	22,266	From Lake Walcott State Park Entrance Road	Gravel
901	10005968	Parking A	2,379	From Bird Island Road (Route 100)	Gravel
902	10005968	Parking F	2,246	From Bird Island Road (Route 100)	Native
903	10005968	Parking D	2,648	From Bird Island Road (Route 100)	Native
904	10005968	Parking C	1,684	From Bird Island Road (Route 100)	Gravel
905	10005968	Parking B	2,637	From Area B Access Road (Route 102)	Native
906	10005970	Gifford Springs Parking	7,719	From Gifford Springs Road (Route 105)	Gravel
907	10005968	Parking E	1,423	From Bird Island Road (Route 100)	Primitive

Changes to Fish and Wildlife Service Road Inventory

Minidoka NWR

Added			
Rte#	Route Name	Description	Comments
109	Minidoka Road	New Public Route	
110	Disability Hunter Access Road	New Public Route	
111	Call Pump Access Road	New Public Route	
400	Southern Dam Access Road	New Administrative Route	
907	Parking E	New Public Route	

Modifie	ed		
Rte #	Route Name	Description	Comments
100	Bird Island Road	Surface changed to native	Sections 009, 010
102	Area B Access Road	Surface changed to native	
103	Smith's Spring Road	Surface changed, renamed, and re-sectioned	Was named 17-mile Hole Road. Re-sectioned to correct Cycle 3 errors
104	Tule Island Access Road	Surface changed to native	Section 002
106	North Refuge Road 1	Re-sectioned	Re-sectioned to correct Cycle 3 errors
107	North Refuge Road 2	Re-sectioned	Re-sectioned to correct Cycle 3 errors
902	Parking F	Surface changed to native	
903	Parking D	Surface changed to native	
905	Parking B	Surface changed to native	
906	Gifford Springs Parking	Surface changed to gravel	



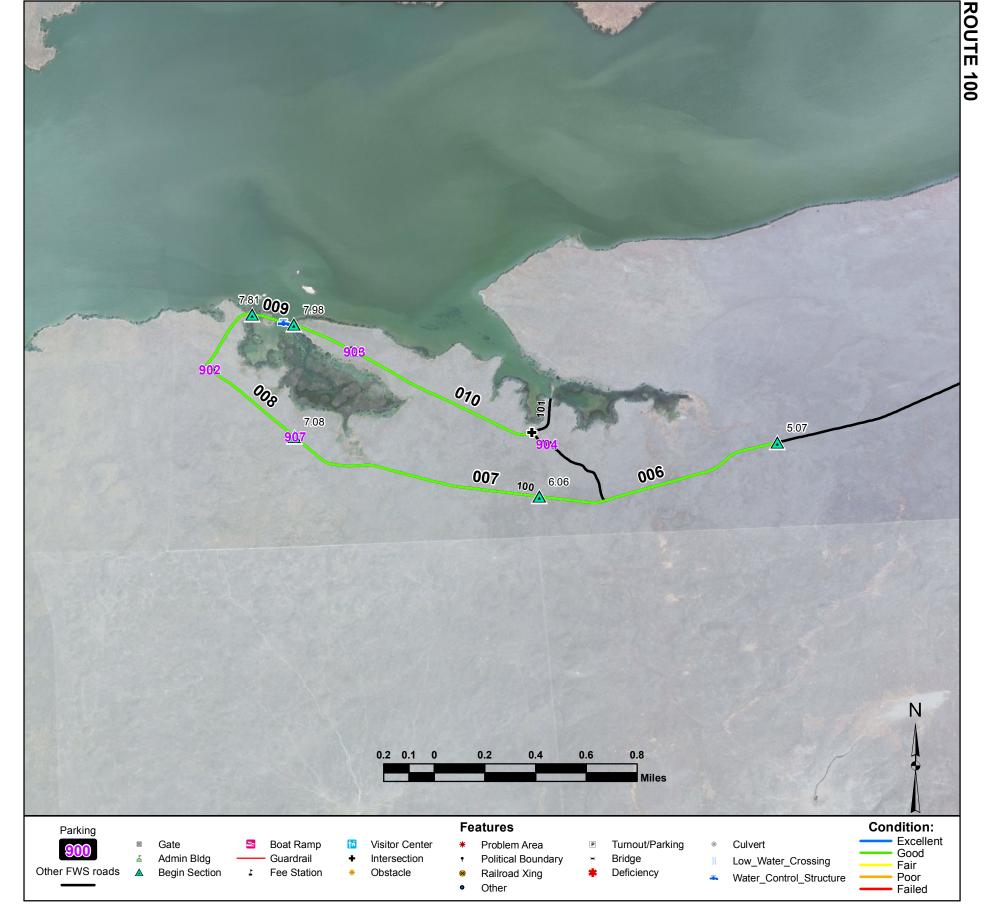
Bird Island Road

From Baseline Road to end of loop

Route Number: 100 Total Route Mileage: 9.44

Asset Number Section Number Section Length (miles)	10051488 001 1.01	10051488 002 1.02	10005948 003 1.02	10005948 004 1.01	10005948 005 1.01
Inspection Date	03-15-2013	03-15-2013	03-15-2013	03-15-2013	03-15-2013
Surface Type	Gravel	Gravel	Gravel	Gravel	Gravel
Number of Lanes	2	1	2	2	2
Roadway Width (feet)	16	14	16	16	16
Condition	Good	Fair	Good	Good	Good
Remaining Service Life (years)	5	4	5	5	6
Estimated Cost to Repair	\$1,500	\$3,400	\$1,500	\$1,500	\$1,500
Current Replacement Value	\$647,300	\$653,700	\$653,700	\$647,300	\$647,300

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section	001-0.0						
Begin Section	002-1.01						
Gate	003-2.03						
Cattle Guard	003-2.03						
Begin Section	003-2.03						
Intersection	003-3.04						
Begin Section	004-3.05						
Turnout/Parking	004-3.15						
Intersection	004-3.98						
Begin Section	005-4.06						
· ·							



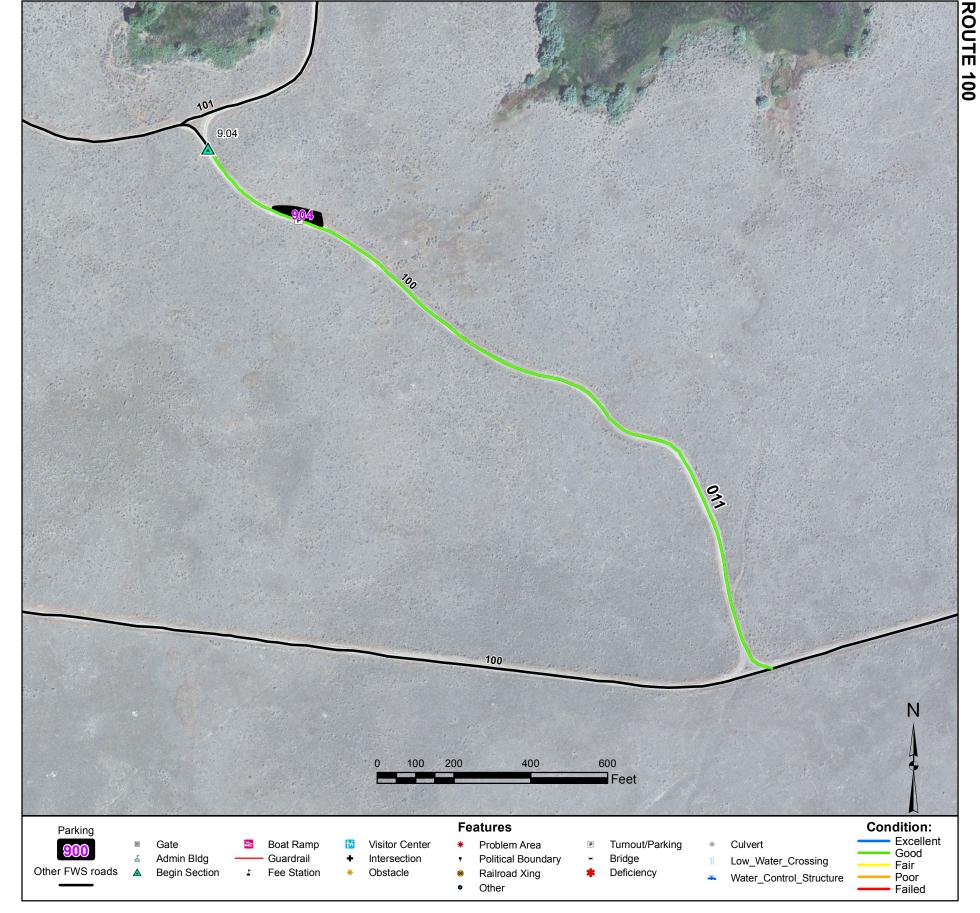
Bird Island Road

From Baseline Road to end of loop

Route Number: 100 Total Route Mileage: 9.44

Asset Number	10005948	10005948	10005948	10005948	10005948
Section Number	006	007	008	009	010
Section Length (miles)	0.99	1.02	0.73	0.17	1.06
Inspection Date	03-15-2013	03-15-2013	03-15-2013	03-15-2013	03-15-2013
Surface Type	Gravel	Gravel	Gravel	Native	Native
Number of Lanes	2	1	1	1	1
Roadway Width (feet)	16	14	14	10	14
Condition	Good	Good	Good	Good	Good
Remaining Service Life (years)	7	7	5	5	7
Estimated Cost to Repair	\$1,500	\$1,500	\$1,100	\$300	\$1,700
Current Replacement Value	\$634,500	\$653,700	\$467,800	\$56,400	\$351,400

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section Begin Section Turnout/Parking Begin Section Turnout/Parking Begin Section Water Control Structure Begin Section Turnout/Parking Intersection	006-5.07 007-6.06 007-7.07 008-7.08 008-7.51 009-7.81 009-7.94 010-7.98 010-8.24 010-9.02						



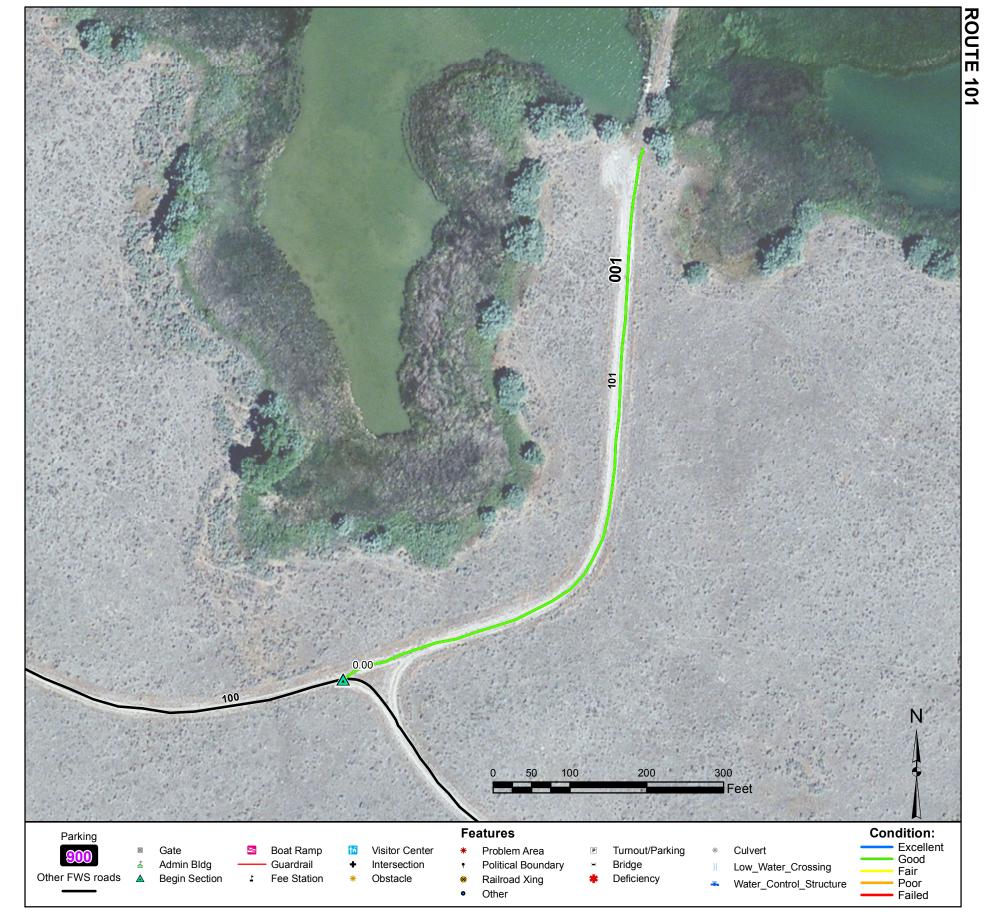
Bird Island Road

From Baseline Road to end of loop

Route Number: 100 Total Route Mileage: 9.44

Asset Number	10005948		
Section Number	011		
Section Length (miles)	0.40		
Inspection Date	03-15-2013		
Surface Type	Gravel		
Number of Lanes	1		
Roadway Width (feet)	14		
Condition	Good		
Remaining Service Life (years)	5		
Estimated Cost to Repair	\$600		
Current Replacement Value	\$256,400		

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section Turnout/Parking	011-9.04 011-9.1						



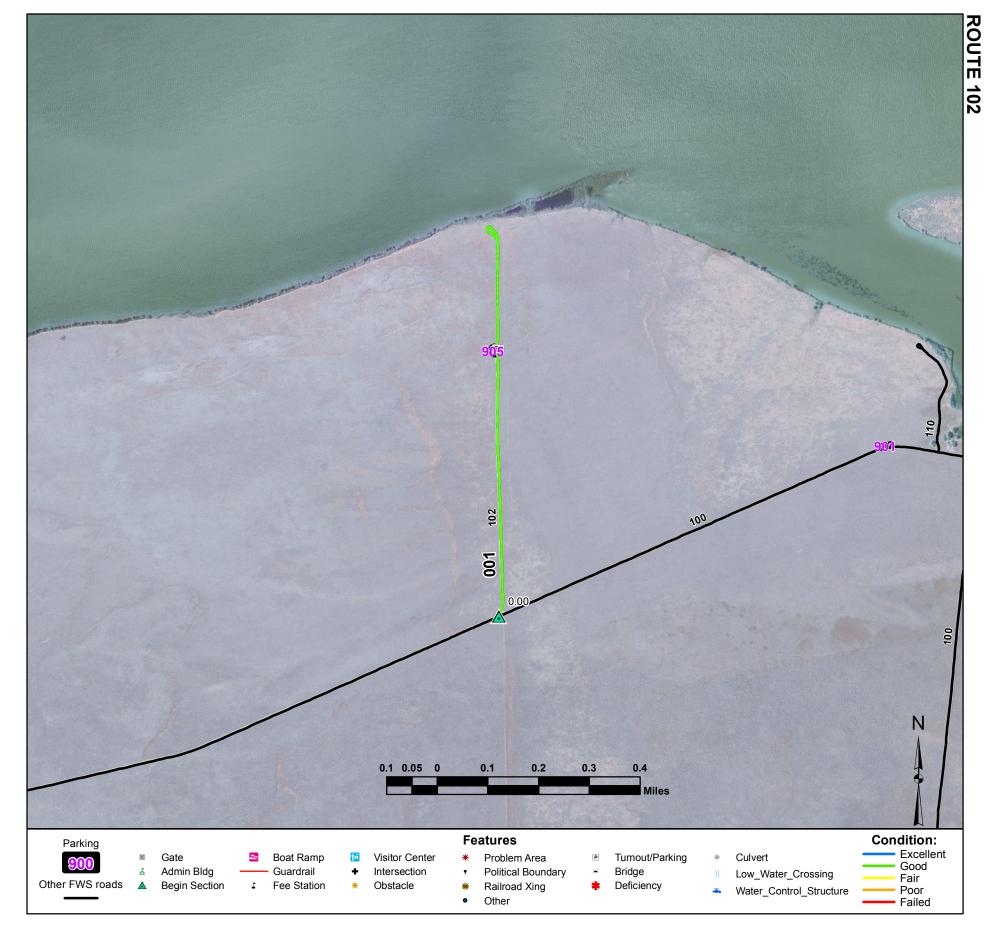
Area C Access Road

From Bird Island Road (Route 100) to end of route

Route Number: 101 Total Route Mileage: 0.17

Asset Number	-		
Section Number	001		
Section Length (miles)	0.17		
Inspection Date	03-15-2013		
Surface Type	Gravel		
Number of Lanes	1		
Roadway Width (feet)	14		
Condition	Good		
Remaining Service Life (years)	5		
Estimated Cost to Repair	\$300		
Current Replacement Value	\$108,900		

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section	001-0.0						



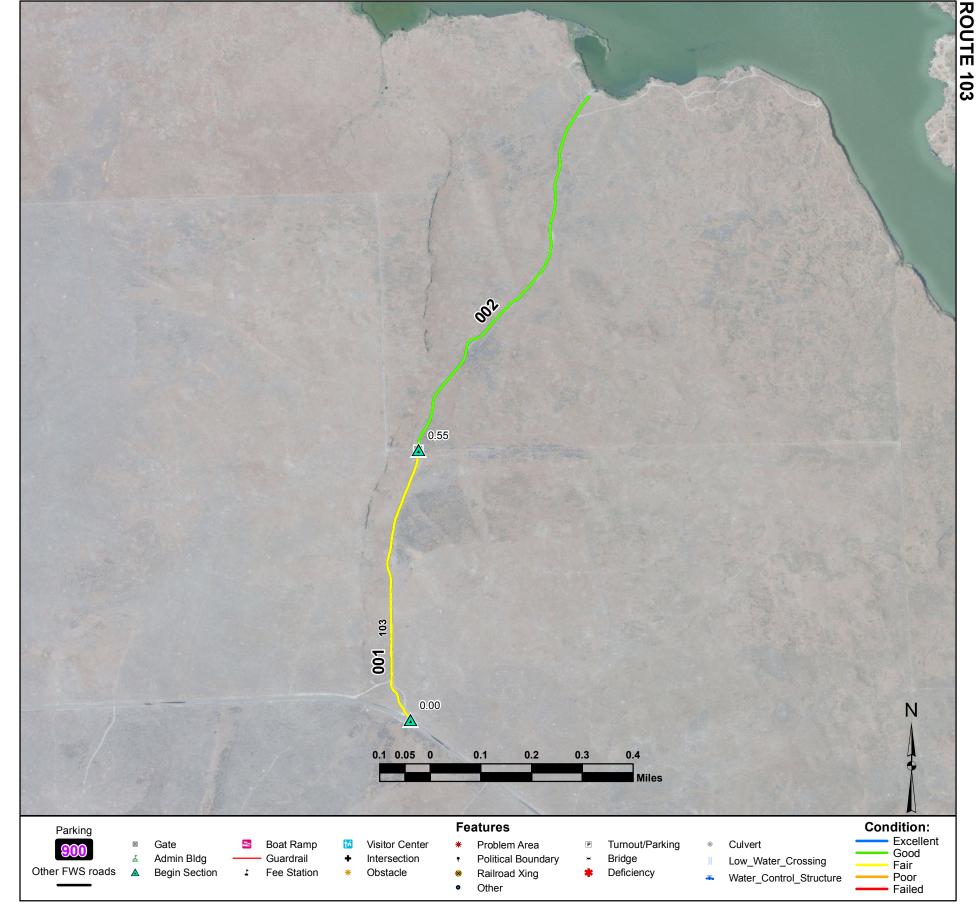
Area B Access Road

From Bird Island Road (Route 100) to end of route

Route Number: 102 Total Route Mileage: 0.82

Asset Number	-		
Section Number	001		
Section Length (miles)	0.82		
Inspection Date	03-15-2013		
Surface Type	Native		
Number of Lanes	1		
Roadway Width (feet)	14		
ondition	Good		
Remaining Service Life (years)	5		
Estimated Cost to Repair	\$1,300		
Current Replacement Value	\$271,900		

Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
001-0.0 001-0.53						



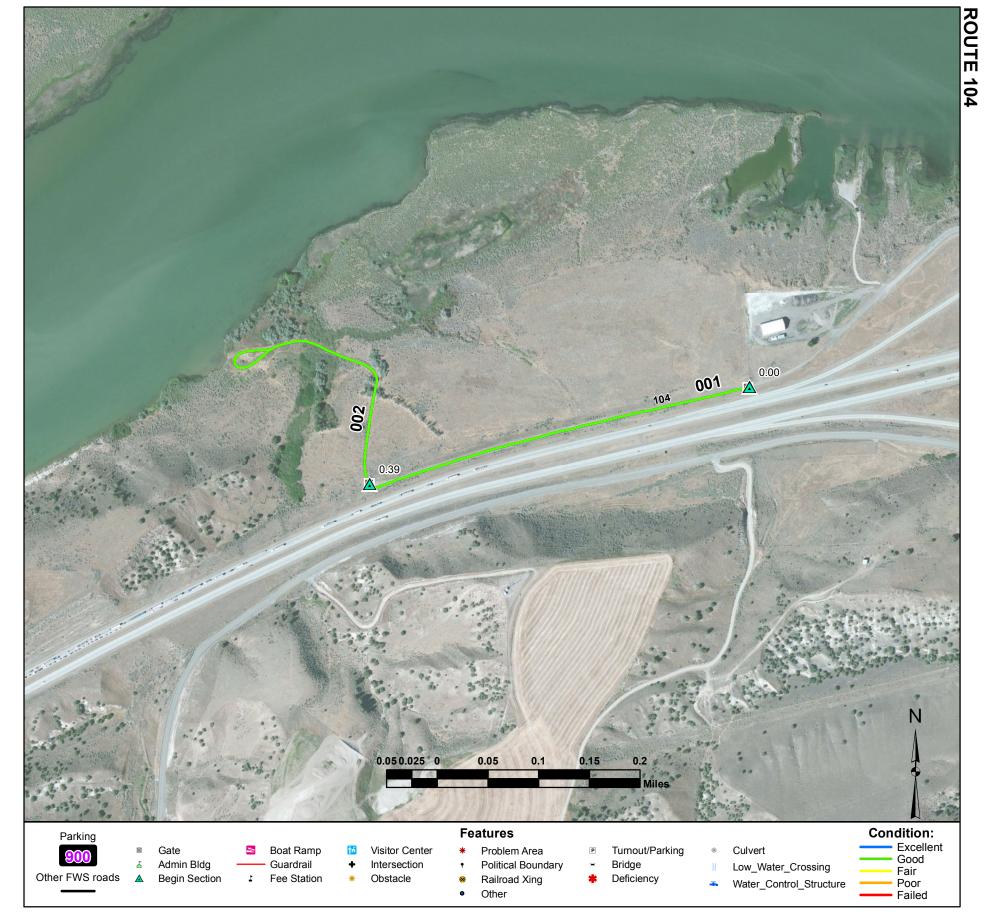
Smith's Spring Road

From Baseline Road to end of route

Route Number: 103 Total Route Mileage: 1.36

Asset Number	10051418	10005967	
Section Number	001	002	
Section Length (miles)	0.55	0.81	
Inspection Date	03-15-2013	03-15-2013	
Surface Type	Native	Gravel	
Number of Lanes	Native	Javei	
	'	l l	
Roadway Width (feet)	12	14	
Condition	Fair	Good	
Remaining Service Life (years)	4	6	
Estimated Cost to Repair	\$1,100	\$1,200	
Current Replacement Value	\$182,300	\$519,100	

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section Cattle Guard Begin Section	001-0.0 001-0.55 002-0.55						



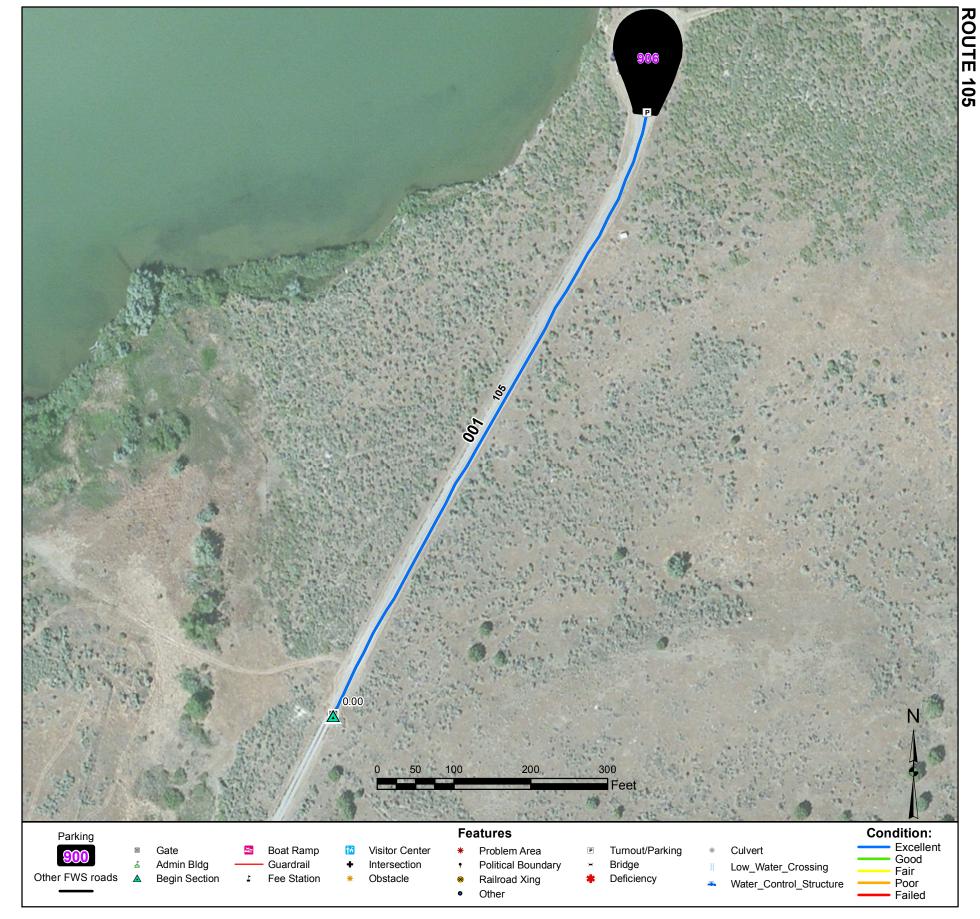
Tule Island Access Road

From Barkdull Road to end of loop

Route Number: 104 Total Route Mileage: 0.70

Asset Number	10041986	10041986	
Section Number	001	002	
Section Length (miles)	0.39	0.31	
Inspection Date	03-16-2013	03-16-2013	
Surface Type	Gravel	Native	
Number of Lanes	1	1	
Roadway Width (feet)	14	14	
Condition	Good	Good	
Remaining Service Life (years)	7	5	
Estimated Cost to Repair	\$600	\$500	
Current Replacement Value	\$249,900	\$102,800	

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section Cattle Guard Begin Section Gate	001-0.0 001-0.0 002-0.39 002-0.39						



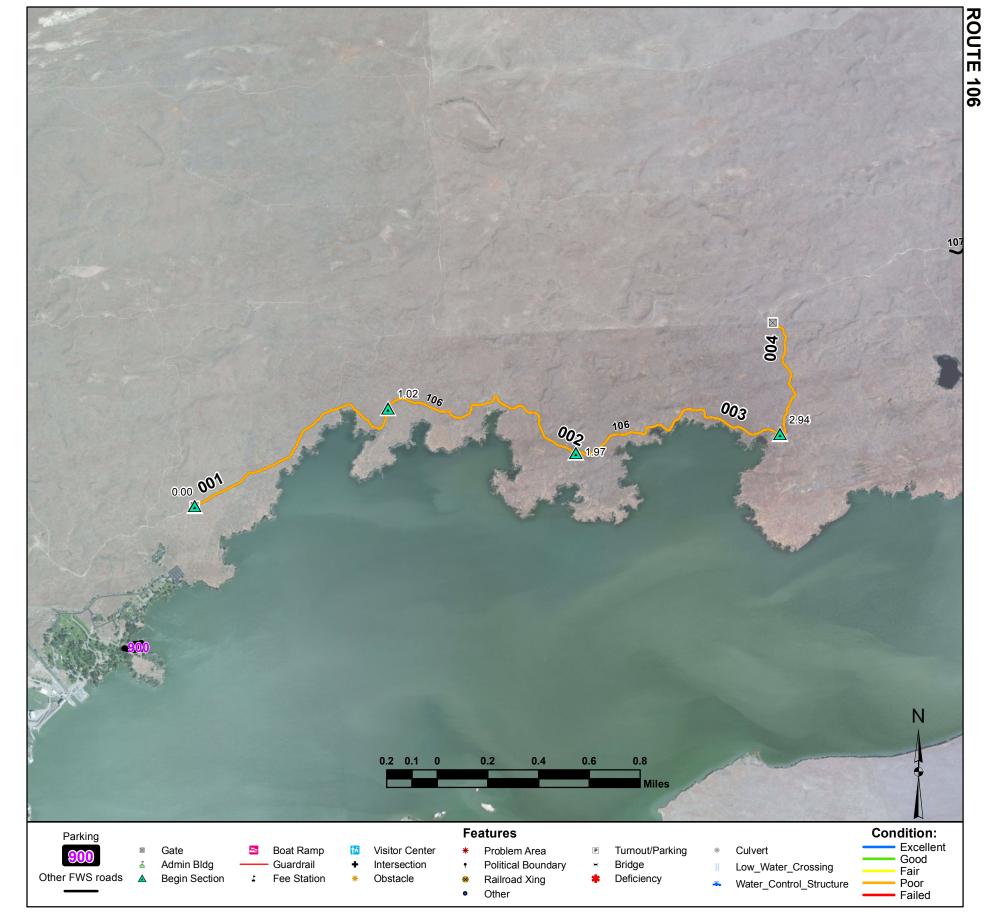
Gifford Springs Road

From Refuge boundary to Gifford Springs Parking (Route 906)

Route Number: 105 Total Route Mileage: 0.17

Asset Number	10041979		
Section Number	001		
Section Length (miles)	0.17		
Inspection Date	03-16-2013		
Surface Type	Gravel		
Number of Lanes	2		
Roadway Width (feet)	20		
Condition	Excellent		
Remaining Service Life (years)	8		
Estimated Cost to Repair	\$0		
Current Replacement Value	\$108,900		

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section Cattle Guard Turnout/Parking	001-0.0 001-0.0 001-0.17						



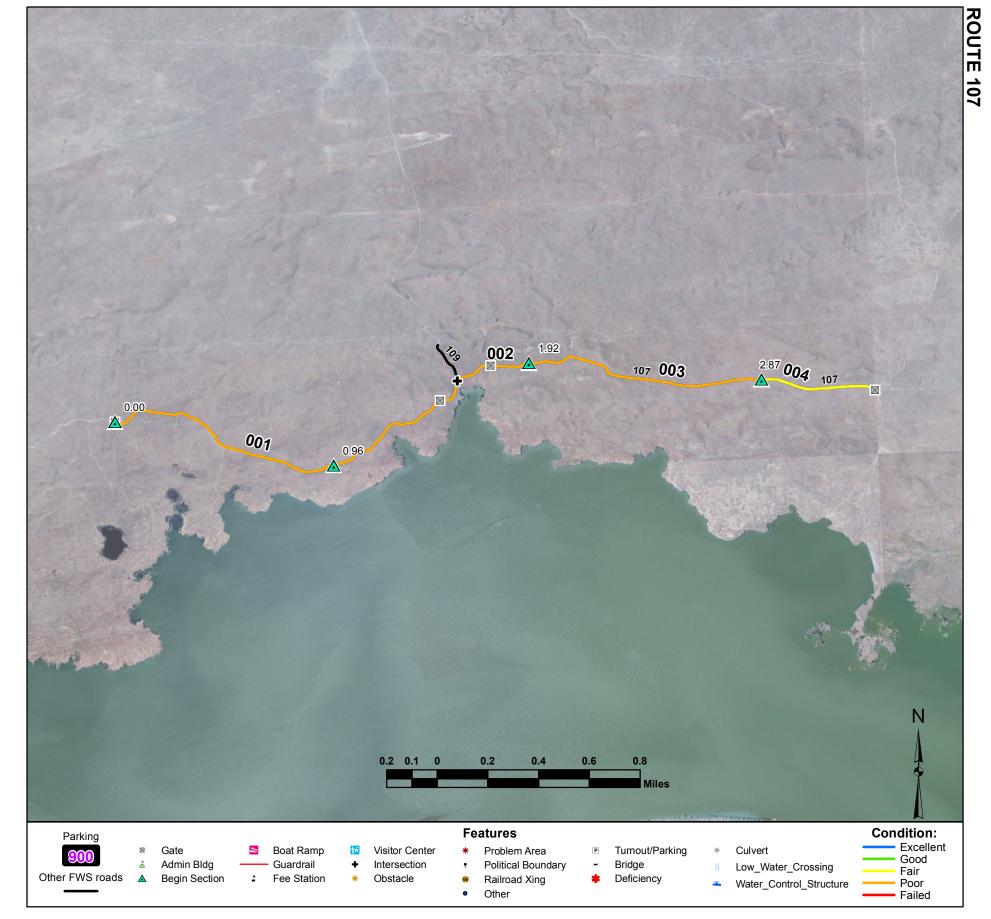
North Refuge Road 1

From West Refuge boundary to North Refuge boundary

Route Number: 106 Total Route Mileage: 3.47

Asset Number	10042029	10042029	10042029	10042029
Section Number	001	002	003	004
Section Length (miles)	1.02	0.95	0.97	0.53
Inspection Date	03-14-2013	03-14-2013	03-14-2013	03-14-2013
Surface Type	Gravel	Gravel	Gravel	Gravel
Number of Lanes	1	1	1	1
Roadway Width (feet)	10	12	12	12
Condition	Poor	Poor	Poor	Poor
Remaining Service Life (years)	2	2	2	2
Estimated Cost to Repair	\$121,100	\$112,800	\$115,100	\$62,900
Current Replacement Value	\$653,700	\$608,800	\$621,600	\$339,700

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section	001-0.0						
Cattle Guard	001-0.0						
Begin Section	002-1.02						
Begin Section	003-1.97						
Begin Section	004-2.94						
Cattle Guard	004-3.47						



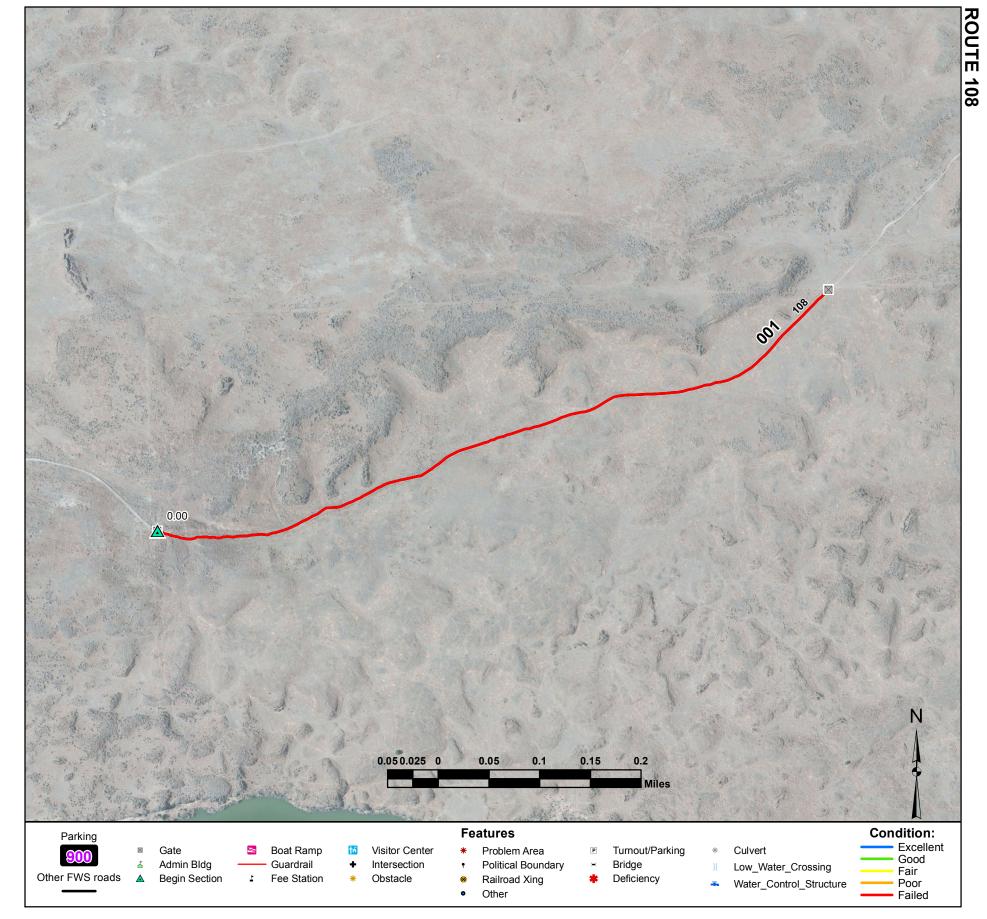
North Refuge Road 2

From West Refuge boundary to East Refuge boundary

Route Number: 107 Total Route Mileage: 3.33

Asset Number	10042029	10042029	10042029	10042029
Section Number	001	002	003	004
Section Length (miles)	0.96	0.96	0.95	0.46
Inspection Date	03-14-2013	03-14-2013	03-14-2013	03-14-2013
Surface Type	Gravel	Gravel	Gravel	Gravel
Number of Lanes	1	1	1	1
Roadway Width (feet)	12	12	12	12
Condition	Poor	Poor	Poor	Fair
Remaining Service Life (years)	2	2	2	3
Estimated Cost to Repair	\$113,900	\$113,900	\$112,800	\$1,500
Current Replacement Value	\$615,200	\$615,200	\$608,800	\$294,800

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section Cattle Guard Begin Section Cattle Guard Intersection Cattle Guard Begin Section Begin Section	001-0.0 001-0.0 002-0.96 002-1.49 002-1.6 002-1.76 003-1.92 004-2.87						
Cattle Guard	004-3.33						



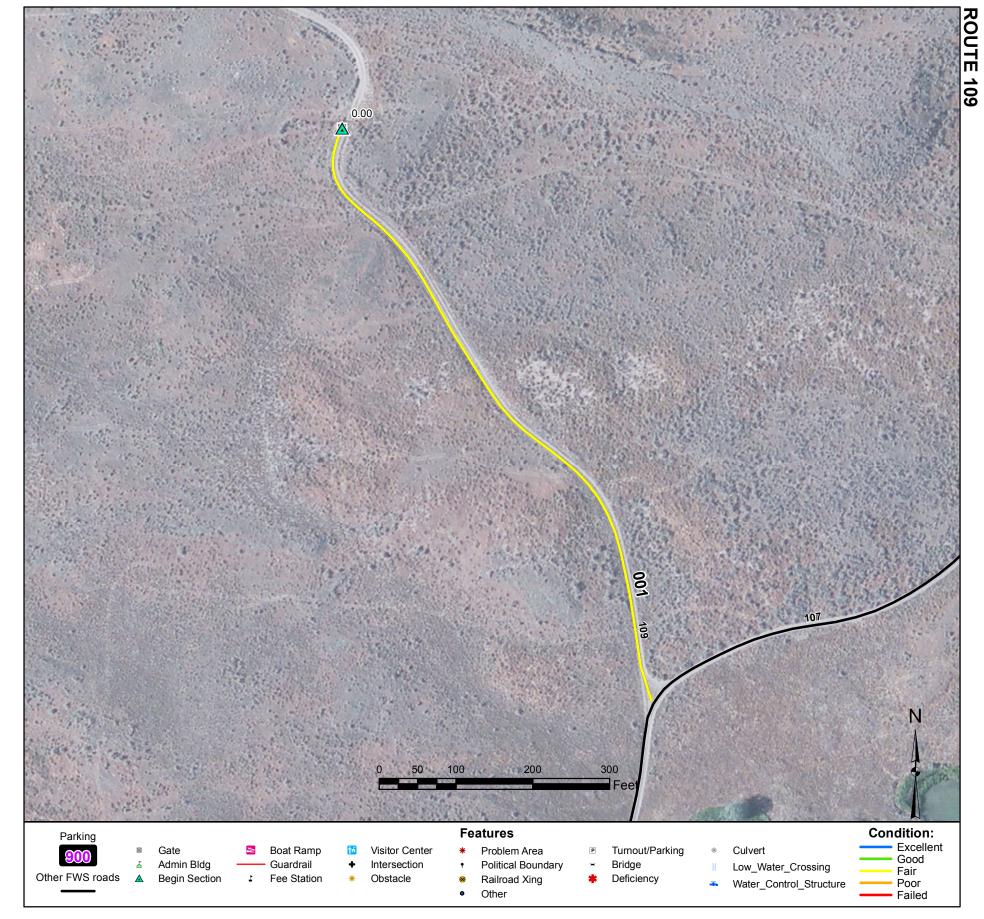
North Refuge Road 3

From West Refuge boundary to North Refuge boundary

Route Number: 108 Total Route Mileage: 0.73

Asset Number	-		
Section Number	001		
Section Length (miles)	0.73		
Inspection Date	06-17-2004		
Surface Type	Gravel		
Number of Lanes	1		
Roadway Width (feet)	12		
Condition	Failed		
Remaining Service Life (years)	0		
Estimated Cost to Repair	\$356,100		
Current Replacement Value	\$467,800		

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section Cattle Guard Cattle Guard	001-0.0 001-0.0 001-0.73						



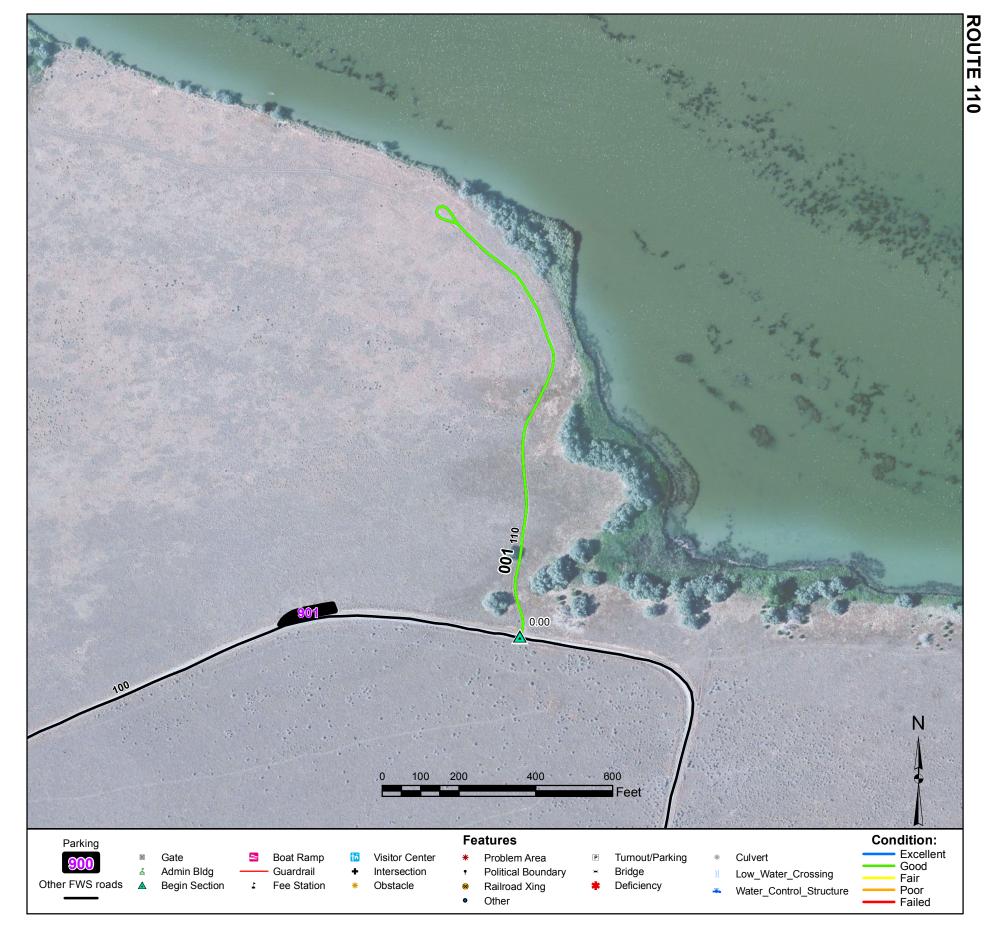
Minidoka Road

From North Refuge boundary to North Refuge Road 2 (Route 107)

Route Number: 109 Total Route Mileage: 0.17

Asset Number	10054134		
Section Number	001		
Section Length (miles)	0.17		
Inspection Date	03-15-2013		
Surface Type	Gravel		
Number of Lanes	1		
Roadway Width (feet)	12		
Condition	Fair		
Remaining Service Life (years)	4		
Estimated Cost to Repair	\$600		
Current Replacement Value	\$108,900		

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section Cattle Guard	001-0.0 001-0.0						

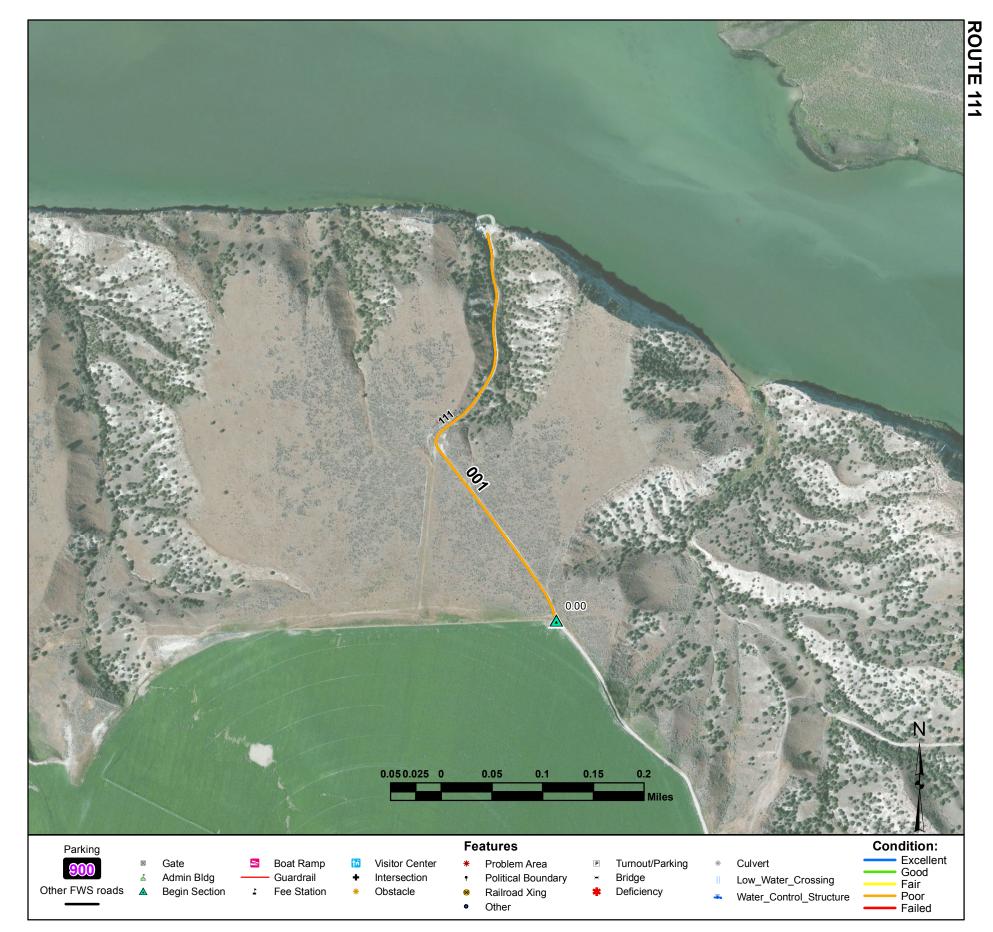


Disability Hunter Access RoadFrom Bird Island Road (Route 100) to end of loop

Total Route Mileage: 0.25 Route Number: 110

Asset Number Section Number Section Length (miles) Inspection Date	10054133 001 0.25 03-15-2013
	03-15-2013
Surface Type	Primitive
Number of Lanes	1
Roadway Width (feet)	10
Condition	Good
Remaining Service Life (years)	5
Estimated Cost to Repair	\$100
Current Replacement Value	\$0

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section	001-0.0						



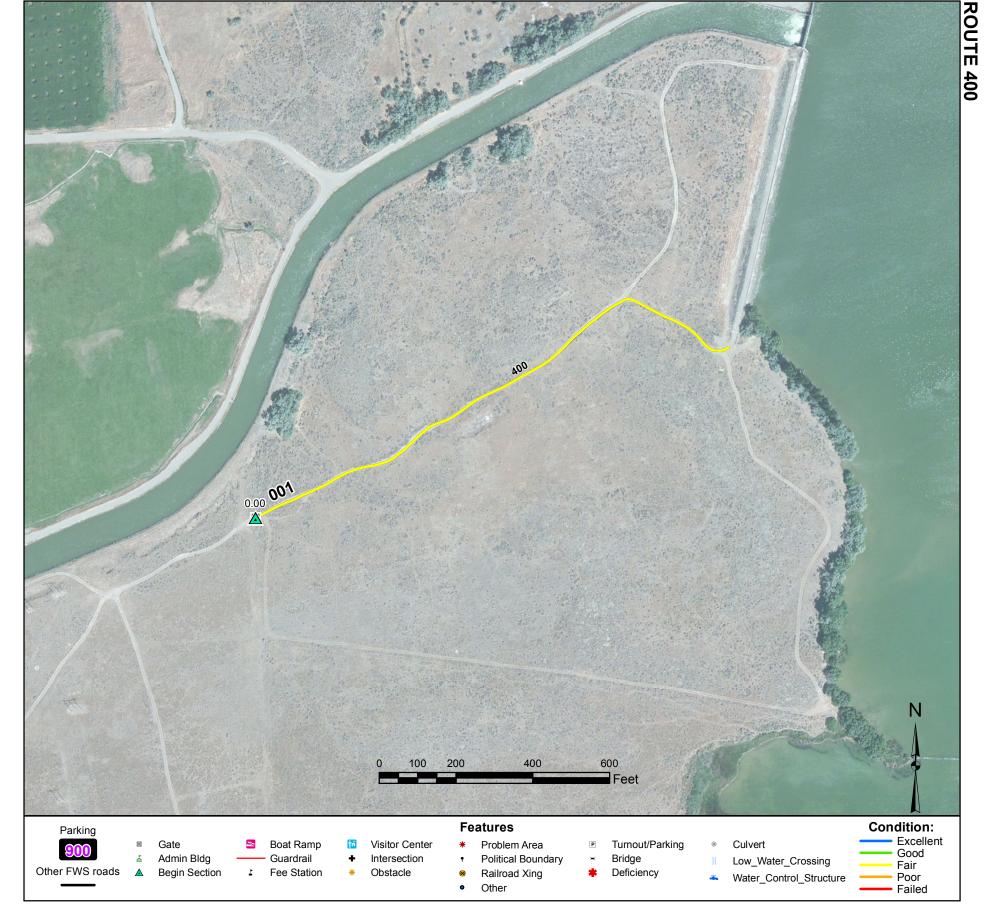
Call Pump Access Road

From South Refuge boundary to pump

Route Number: 111 Total Route Mileage: 0.44

Asset Number	10064187		
Section Number	001		
Section Length (miles)	0.44		
Inspection Date	03-16-2013		
Surface Type	Native		
Number of Lanes	1		
Roadway Width (feet)	14		
Condition	Poor		
Remaining Service Life (years)	2		
Estimated Cost to Repair	\$12,800		
Current Replacement Value	\$145,900		

	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
on	001-0.0						



Southern Dam Access Road

From West Refuge boundary to dam

Route Number: 400 Total Route Mileage: 0.27

Asset Number Section Number Section Length (miles) Inspection Date	10054148 001 0.27 03-15-2013	
Surface Type Number of Lanes Roadway Width (feet)	Native 1 10	
Condition Remaining Service Life (years) Estimated Cost to Repair Current Replacement Value	Fair 4 \$500 \$89,500	

Features	Mile Post	Features	Mile Post	Features	Mile Post	Features	Mile Post
Begin Section Gate	001-0.0 001-0.0						

Route Number: 900 Office Parking

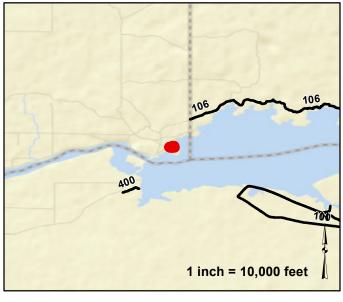
From Lake Walcott State Park Entrance Road

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10042161	22266	11	Fair	Gravel	\$5,500	03-14-2013	\$102,400









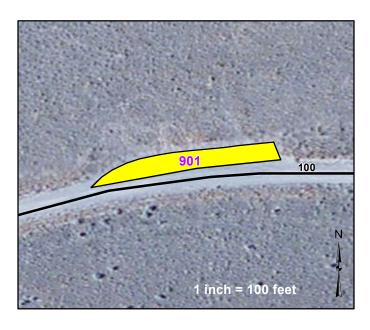


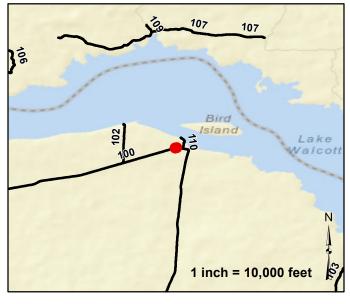
Parking A

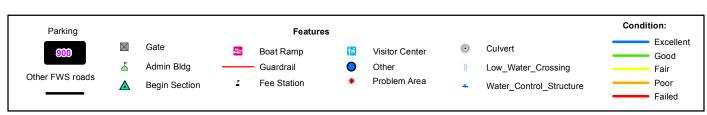
Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10005968	2379	3	Fair	Gravel	\$600	03-15-2013	\$10,900









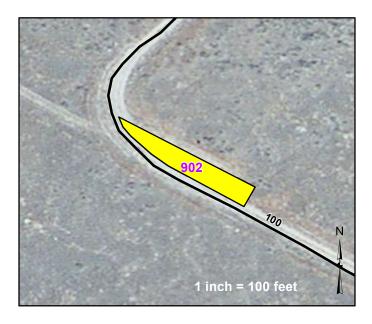


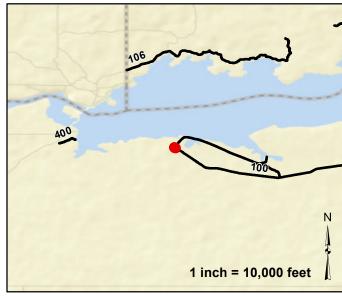
Parking F

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10005968	2246	6	Fair	Native	\$600	03-15-2013	\$4,500









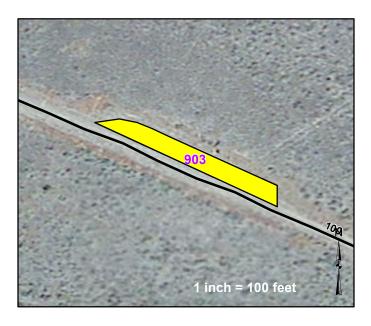


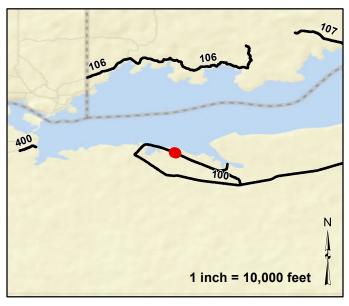
Parking D

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10005968	2648	5	Fair	Native	\$700	03-15-2013	\$5,300









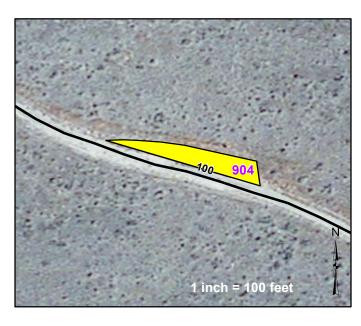


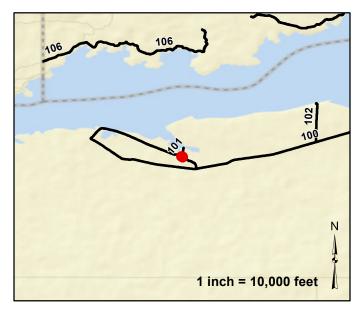
Parking C

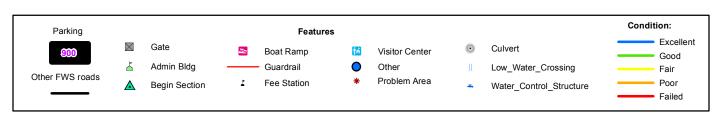
Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10005968	1684	10	Fair	Gravel	\$400	03-15-2013	\$7,700











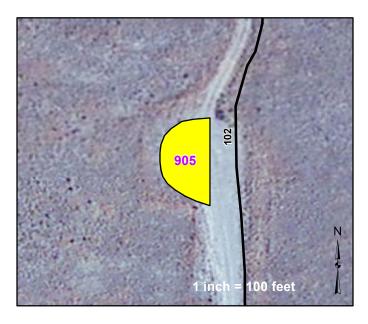
Parking B

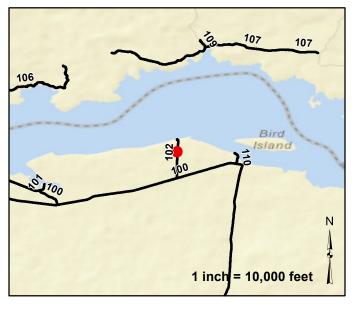
From Area B Access Road (Route 102)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10005968	2637	3	Fair	Native	\$600	03-15-2013	\$5,200











Gifford Springs Parking

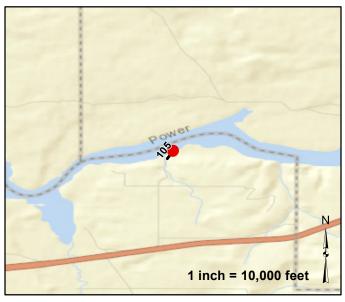
From Gifford Springs Road (Route 105)

Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10005970	7719	12	Excellent	Gravel	\$0	03-16-2013	\$35,500









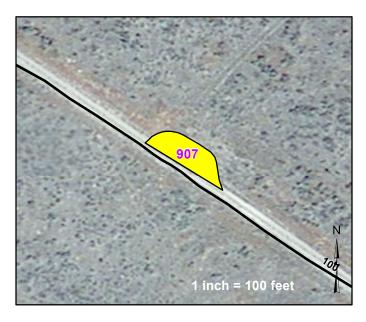


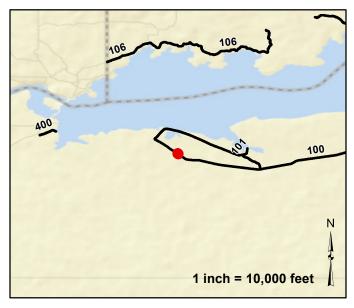
Parking E

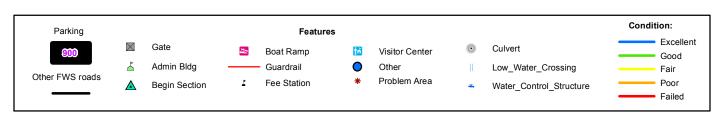
Asset Number	Area (Sq Ft)	Spaces	Condition	Surface Type	Cost to Improve	Inspection Date	Current Replacement Value
10005968	1423	4	Fair	Primitive	\$400	03-15-2013	\$0











Minidoka NWR Bridge Inventory							
Rte #	Milepost	NBIS#	Sufficiency Rating	Functionally Obsolete	Structurally Deficient		
No Bridges to	Report						

ROUTE: 100 Features Photographs



Photo: MINI_C4_0351 Route: 100-001-0.0 Begin Section



Photo: MINI_C4_0352 Route: 100-002-1.01 Begin Section



Photo: MINI_C4_0353 Route: 100-003-2.03 Begin Section



Photo: MINI_C4_0355 Route: 100-003-2.03 Metal Cattle Guard



Photo: MINI_C4_0354 Route: 100-003-2.03 Metal Open Rail Gate



Photo: MINI_C4_0356 Route: 100-004-3.05 Begin Section

ROUTE: 100

Features Photographs



Photo: MINI_C4_0362 Route: 100-005-4.06 Begin Section



Photo: MINI_C4_0363 Route: 100-006-5.07 Begin Section



Photo: MINI_C4_0364 Route: 100-007-6.06 Begin Section



Photo: MINI_C4_0365 Route: 100-008-7.08 Begin Section



Photo: MINI_C4_0379 Route: 100-009-7.81 Begin Section



Photo: MINI_C4_0371 Route: 100-009-7.94 Concrete WCS Flashboard Riser 40ft long 24in dia. 8ft deep 8-002

ROUTE: 100 Features Photographs





Photo: MINI_C4_0372 Route: 100-009-7.94 Photo: MINI_C4_0373 Route: 100-010-7.98 Concrete WCS Flashboard Riser 40ft long 24in dia. 8ft deep Begin Section



Photo: MINI_C4_0376 Route: 100-011-9.04 Begin Section

ROUTE: 101 **Features Photographs**



Photo: MINI_C4_0377 Route: 101-001-0.0 Begin Section

ROUTE: 102 Features Photographs



Photo: MINI_C4_0380 Route: 102-001-0.0 Begin Section

ROUTE: 103 Features Photographs



Photo: MINI_C4_0383 Route: 103-001-0.0 Begin Section



Photo: MINI_C4_0384 Route: 103-001-0.55 Metal Cattle Guard



Photo: MINI_C4_0385 Route: 103-002-0.55 Begin Section

ROUTE: 104 Features Photographs



Photo: MINI_C4_0395 Route: 104-001-0.0 Begin Section



Photo: MINI_C4_0396 Route: 104-001-0.0 Metal Cattle Guard



Photo: MINI_C4_0398 Route: 104-002-0.39 Begin Section



Photo: MINI_C4_0397 Route: 104-002-0.39 Metal Open Rail Gate

ROUTE: 105 Features Photographs



Photo: MINI_C4_0390 Route: 105-001-0.0 Begin Section



Photo: MINI_C4_0391 Route: 105-001-0.0 Metal Cattle Guard

ROUTE: 106

Features Photographs



Photo: MINI_C4_0300 Route: 106-001-0.0 Begin Section



Photo: MINI_C4_0301 Route: 106-001-0.0 Metal Cattle Guard



Photo: MINI_C4_0302 Route: 106-002-1.02 Begin Section



Photo: MINI_C4_0303 Route: 106-003-1.97 Begin Section



Photo: MINI_C4_0304 Route: 106-004-2.94 Begin Section



Photo: MINI_C4_0305 Route: 106-004-3.47 Metal Cattle Guard

ROUTE: 107

Features Photographs



Photo: MINI_C4_0308 Route: 107-001-0.0 Begin Section



Photo: MINI_C4_0307 Route: 107-001-0.0 Metal Cattle Guard



Photo: MINI_C4_0309 Route: 107-002-0.96 Begin Section



Photo: MINI_C4_0310 Route: 107-002-1.49 Metal Cattle Guard



Photo: MINI_C4_0311 Route: 107-002-1.76 Metal Cattle Guard



Photo: MINI_C4_0312 Route: 107-003-1.92 Begin Section

ROUTE: 107 Features Photographs



Photo: MINI_C4_0313 Route: 107-004-2.87 Begin Section



Photo: MINI_C4_0314 Route: 107-004-3.33 Metal Cattle Guard

ROUTE: 108 Features Photographs



Photo: MINI_C3_0313 Route: 108-001-0.0 Begin Section



Photo: MINI_C3_0314 Route: 108-001-0.0 Metal Cattle Guard



Photo: MINI_C3_0315 Route: 108-001-0.73 Metal Cattle Guard

ROUTE: 109 Fea

Features Photographs



Photo: MINI_C4_0338 Route: 109-001-0.0 Begin Section



Photo: MINI_C4_0339 Route: 109-001-0.0 Metal Cattle Guard

ROUTE: 110 **Features Photographs**



Photo: MINI_C4_0359 Route: 110-001-0.0 Begin Section

ROUTE: 111 **Features Photographs**



Photo: MINI_C4_0394 Route: 111-001-0.0 Begin Section

ROUTE: 400 Features Photographs



Photo: MINI_C4_0349 Route: 400-001-0.0 Begin Section



Photo: MINI_C4_0350 Route: 400-001-0.0 Metal Cable Gate with Barbed Wire

ROUTE: 600 **Features Photographs**



Photo: MINI_C4_0340 Route: 600-001-0.0 Obstacle Sand Dunes- Road blocked by loose sand Prevents access to Route 108

ROUTE: 900 Features Photographs



Photo: MINI_C4_0297 Route: 900 Metal Chain Link Gate electric

Accident Summary

Number of Accidents Reported	Timespan of Accidents	Injuries	Fatalities
0	No Accidents to Report	0	0

APPENDIX

TA	BLE 1 - GENERAL FWS ROAD FUNCTIONAL CLASSIFICATION
Class I	Principal Refuge Road (Public Roads) - Routes that constitute the main access
	route, main auto tour route, or thoroughfare for refuge visitors. These routes are
	accessible by 2WD vehicles. Routes are numbered from 10 to 99.
Class II	Connector Refuge Road (Public Roads) - Routes that provide circulation within
	the refuge. These routes can also provide access to areas of scenic, scientific,
	recreational or cultural interest, such as overlooks, campgrounds, education
	centers, etc. These routes are accessible by 2WD vehicles. Routes are numbered
	from 100 to 199.
Class III	Special Purpose Refuge Road (Public Roads) - Roads that provide circulation
	within special use areas such as campgrounds or public concessionaire facilities
	or access to remote areas of the refuge. These routes may not be 2WD accessible.
	Routes are numbered from 200 to 299
Class IV	Administrative Access Road (Administrative Roads) - Routes intended for access
	to administrative developments or structures such as maintenance offices,
	employee quarters, or utility areas. These routes are accessible by 2WD vehicles.
	These routes may restrict access to the general public. Routes are numbered from
	300 to 399.
Class V	Restricted Road (Administrative Roads) - Routes normally closed to the public,
	such as maintenance roads, service roads, patrol roads, and fire breaks. These
	routes may be open to the public for a short period of time for a special use, such
	as hunting access. These routes may not be 2WD accessible. Routes are
	numbered from 400 to 499.

A refuge road system contains those routes within or giving access to a refuge or other unit of the FWS that are administered by the FWS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a refuge road is not based on traffic volumes or design speed, but on the intended use or function of that route

DESCRIPTION OF RATING SYSTEM

Rating Data is collected on four different surface types: Asphalt, Concrete, Gravel, and Native. The Utah LTAP Center's Remaining Service Life (RSL) system is used for all surface types. The RSL system is based on the Strategic Highway Research Program's (SHRP) Distress Identification Manual.

Asphalt Rating System

Data is collected on the following distresses and conditions:

- **Fatigue Cracking** Interconnected cracks forming small irregular shapes.
- **Longitudinal Cracking** Cracks running parallel with the roadway, in the direction of traffic.
- **Transverse Cracking** Cracks perpendicular to the roadway, going across the lane or lanes.
- **Block Cracking** Interconnected cracks forming large blocks.
- **Edge Cracking** Cracks running along the edge of the pavement surface.
- **Patches** Original surface repaired with new asphalt patch material.
- **Potholes** Holes or depressions in the pavement.
- **Rutting** surface depressions in the wheel paths.
- **Roughness** Evenness of pavement for serviceability.
- **Drainage** Ability of the road surface to drain water based on proper slope.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

Fatigue, longitudinal, transverse, block, and edge cracking, along with patching and potholes are rated on a 0 - 9 scale (0 = no distress, 9 = maximum distress). The rating given is based on the extent and the severity of the distress. Rutting, roughness, and drainage are rated on a 0 - 3 scale (0 = excellent, 3 = poor). Each distress type has given Remaining Service Life (RSL) values (in years) based on the rating for that particular distress. The distress with the rating resulting in the lowest RSL value is considered to be the governing distress. That value is then assigned as the RSL of the road segment.

Concrete Rating System

Data is collected on the following distresses and conditions:

- **Spalling of Joints** Chipping, breaking, or cracking of slab edges
- **Joint Seal Damage** Any damage or condition that enables materials or water to infiltrate into the joint from the surface.
- **Corner Breaks** A portion of the slab separated by a crack that intersects the adjacent transverse and longitudinal joints, forming approximately a 45° angle to the direction.
- **Broken Slabs** Faulting and/or cracking localized to individual slabs.

- **Faulting** Difference in elevation across a crack or joint.
- **Longitudinal Cracking** Cracks in the pavement running parallel to road.
- **Transverse Cracking** Cracks in the pavement running perpendicular to the direction of traffic.
- **Patch Deterioration** Faulting, settling, or cracking of previously placed patch
- Map Cracking A series of cracks that extend only into the upper surface of the Slab

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

The rating procedure for concrete pavement is the same as that for asphalt pavement described previously. Each of the distresses described above are rated on the same 0-9 scale. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Gravel and Native Rating System

Data is collected on the following distresses and conditions:

- **Cross Section (Crown)** Roadway built so that the center is higher than the shoulder, to prevent water from pooling on roadway.
- **Roadside Drainage** Roadside ditches and culverts to handle water flow and prevent pooling on the roadside.
- **Corrugations (Washboarding)** Small trenches or holes developing perpendicular to the roadway.
- **Potholes** Holes or depressions in the roadway.
- **Rutting** Depressions running parallel with the roadway, in the wheelpaths.
- **Dust** Amount of dust caused by traffic.
- **Loose Aggregate (Gravel Only)** Loose gravel, typically piled up on the roadway edges or centerline.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

The rating procedure for unpaved roads is the same as that for asphalt and concrete pavements described previously. Of the distresses described above, corrugations, potholes, rutting, and loose aggregate are rated on the same 0-9 scale previously mentioned. Cross section, roadside drainage, and dust are rated on the same 0-3 scale described for asphalt pavement. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Condition Descriptions by Surface Type

The following definitions are used to describe pavement condition for the various surface types. These are general guidelines for condition indications.

Asphalt

Excellent – Recently constructed or overlaid road where construction or overlay was performed correctly- No maintenance required. RSL = 19-20 years.

Good – Low extent longitudinal and transverse cracks. All cracks are 1/4" or less with little or no crack erosion. Patches are in good condition and applied correctly. Routine Maintenance recommended. RSL = 13-18 years.

Fair - Roads are in good structural condition with little or no fatigue cracking. Longitudinal, transverse, and edge cracking is at medium extent and severity. Block cracking is not extensive. Any patches are in good condition. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Road beginning to show signs of structural distress. Fatigue cracking is medium to high extent and medium severity. Cracking will be severe. Surface may have severe block cracking and show. Patches are in fair to poor condition. There is moderate distortion or rutting and occasional potholes. Rehabilitation recommended. RSL = 1-6 years.

Failed - Road is severely deteriorated. Signs of structural failure appear along with severe and extensive fatigue cracking, distortion, potholes, or extensive patches in poor condition. Reconstruction recommended. RSL = 0 years.

Concrete

Excellent - New pavement. No maintenance required. RSL = 19-20 years

Good - First signs of transverse cracking, patch or repair, more extensive pop-outs, or scaling. Sealing or routine maintenance recommended. RSL = 13-18 years.

Fair – Pavement has join or crack spalling, and/or faulting, along with cracking at corners with broken pieces. Any Patches are in fair condition and faulting is at a minimum. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Joints and cracks are open 1 inch, spalled, or patched. Faulting is more severe. Rehabilitation recommended. RSL = 1-6 years.

Failed - Most slabs have failed structurally, and faulting is severe. Reconstruction recommended. RSL = 0 years.11-9

The following table shows the relationship between RSL and condition.

S	SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE							
	(Asphalt and Concrete Pavements)							
	FAILED	PO	OR	OR FAIR		GOOD		EXCELLENT
RSL Years	0	1-3	4-6	7-9	10-12	13-15	16-18	19-20

Gravel and Native

Note - Native surfaces do not have a gravel layer.

Excellent - Newly constructed road that has been constructed properly with proper crown, drainage and gravel layer. Little or no distress. No maintenance recommended. RSL = 8-10 years.

Good - Crown, drainage provisions, and gravel layer are in good condition. Distress limited to traffic effects such as dust, loose aggregate, and low severity corrugations (wash boarding). RSL = 5-7 years.

Fair - Adequate drainage and crown through majority of roadway. Crown repair, ditch improvement may be necessary. Road has more severe corrugations and potholes. Preventative maintenance recommended. RSL = 3-4 years.

Poor - Travel at slow speeds is necessary. Additional gravel layer needed to carry traffic. Poor crown. Ditching is inadequate and rutting is extensive and severe. Rehabilitation recommended. RSL = 1-2 years.

Failed - Travel is difficult, and road may be closed at times. Rutting and Corrugations are very severe. Total Reconstruction of road is recommended. RSL = 0 years.

The following table shows the RSL values for gravel and native roads in terms of excellent, good, fair, poor, and failed condition.

SUI	SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE						
	(Gravel and Native Surfaces)						
	FAILED	POOR	FAIR	GOOD	EXCELLENT		
RSL Years 0 1-2 3-4 5-7 8-10							

NATIVE PRIMITIVE/IMPROVED RATING SHEET

	Cross Section (Crown)*						
	Condition		Description				
	No Defects	0	Crown 4-6" with no restriction of water flow from centerline to ditch.				
Severity	Minor Defects	1	Inadequate or inconsistent crown. Drainage to ditch may be restricted.				
Seve	Moderate Defects 2		Flat crown, drainage to ditch restricted.				
	Major Defects 3		Reverse crown, bowl-shaped road, drainage on roadway				

	<u>Rutting</u>							
l .	Extent (Length)							
	No Defects	Low <10%	Med 10-30%	High >30%				
_	Low < 6"	1	2	3				
Severity	Med 6-12"	4	5	6				
S	High > 12"	7	8	9				

	Roadside Drainage*						
	Condition		Description				
	No Defects	0	Wide, deep ditches (>4') with no restriction to water flow.				
Severity	Minor Defects 1		Adequate ditches (>2' deep), minor obstructions restrict water flow.				
	Moderate Defects 2		Shallow, narrow and obstructed ditches. Minor erosion of road.				
	Major Defects	3	No ditch, drainage on roadway with moderate to severe erosion.				

	<u>Potholes</u>							
	Extent (Area)							
	No Defects	Low <10%	Med 10-30%	High >30%				
>	Low < 6"	1	2	3				
Severity	Med 6-12"	4	5	6				
S	High > 12"	7	8	9				

	<u>Dust</u>					
	Condition		Description			
	No Defects	0	No obstruction to sight distance.			
Severity	Minor Defects	1	Sight distance > 550'			
Seve	Moderate Defects	2	Sight distance 225'-550'			
	Major Defects	3	Sight distance < 225'			

	<u>Corrugations</u>							
	Extent (Length)							
	No Defects	Low <10%	Med 10-30%	High >30%				
>	Low < 3"	1	2	3				
Severity	Med 3-6"	4	5	6				
S	High > 6"	7	8	9				

^{*} Crown and Drainage are not rated for roads that have no constructed crown or drainage. This applies to Native and Gravel roads.

GRAVEL RATING SHEET

	Cross Section (Crown)						
	Condition		Description				
	No Defects	0	Crown 4-6" with no restriction of water flow from centerline to ditch.				
rity	Minor Defects	1	Inadequate or inconsistent crown. Drainage to ditch may be restricted.				
Severity	Moderate Defects 2		Flat crown, drainage to ditch restricted.				
	Major Defects 3		Reverse crown, bowl-shaped road, drainage on roadway				

	<u>Rutting</u>						
	Extent (Length)						
	No Defects	Low <10%	Med 10-30%	High >30%			
	Low < 1"	1	2	3			
Severity	Med 1-3"	4	5	6			
S	High > 3"	7	8	9			

	Roadside Drainage			
	Condition		Description	
Severity	No Defects	0	Wide, deep ditches (>4') with no restriction to water flow.	
	Minor Defects	1	Adequate ditches (>2' deep), minor obstructions restrict water flow.	
	Moderate Defects	2	Shallow, narrow and obstructed ditches. Minor erosion of road.	
	Major Defects	3	No ditch, drainage on roadway with moderate to severe erosion.	

		Potho	oles	
		E	ctent (Are	ea)
	No Defects	Low <10%	Med 10-30%	High >30%
<u> </u>	Low < 1"	1	2	3
Severity	Med 1-3"	4	5	6
S	High > 3"	7	8	9

	<u>Dust</u>			
	Condition		Description	
	No Defects	0	No obstruction to sight distance.	
Severity	Minor Defects	1	Sight distance > 550'	
Sev	Moderate Defects	2	Sight distance 225'-550'	
	Major Defects	3	Sight distance < 225'	

	<u>Corrugations</u>			
_		Ext	ent (Len	gth)
	No Defects	Low <10%	Med 10-30%	High >30%
>	Low < 2"	1	2	3
Severity	Med 2-4"	4	5	6
S	High > 4"	7	8	9

^{*} Crown and Drainage are not rated for roads that have no constructed crown or drainage. This applies to Native and Gravel roads.

Loose Aggregate				
		Ex	ctent (Are	ea)
	No Defects	Low <10%	Med 10-30%	High >30%
Severity	Low < 1"	1	2	3
	Med 1-3"	4	5	6
S	High > 3"	7	8	9

ASPHALT RATING SHEET

	Fatigue Cracking			
	No Defects	Low 1 crack WP	Extent Med 2 cracks WP	High >30% lenath
_	Low-Cracks < 1/4"	1	2	3
Severity	Med-Cracks 1/4-3/4"	4	5	6
S	High-Cracks > 3/4"	7	8	9

	Edge Cracking			
		Ext	t ent (Leng	gth)
	No Defects	Low <10%	Med 10-30%	High >30%
_	0-6" from curb	1	2	3
Severity	6-18" from curb	4	5	6
S	> 18" from curb	7	8	9

	Longitudinal Cracking				
	Extent				
	No Defects	Low 1 crack full length	Med 2 cracks full length	High >2 cracks full length	
>	Low-Cracks < 1/4"	1	2	3	
Severity	Med-Cracks 1/4-3/4"	4	5	6	
S	High-Cracks > 3/4"	7	8	9	

	Block Cracking			
		Ext	t ent (Lenç	gth)
	No Defects	Low > 15x15' squares	Med 15-10' squares	High <10x10' squares
>	Low-Cracks < 1/4"	1	2	3
Severity	Med-Cracks 1/4-3/4"	4	5	6
S	High-Cracks > 3/4"	7	8	9

	Transverse Cracking			
		Extent (ft betweer	n cracks)
	No Defects	Low > 200'	Med 200-50'	High < 50'
>	Low-Cracks < 1/4"	1	2	3
Severity	Med-Cracks 1/4-3/4"	4	5	6
S	High-Cracks > 3/4"	7	8	9

	<u>Utility Cuts</u>			
		Ext	t ent (Lenç	gth)
	No Defects	Low <10%	Med 10-30%	High >30%
>	Low-Cracks < 1/4"	1	2	3
Severity	Med-Cracks 1/4-3/4"	4	5	6
S	High-Cracks > 3/4"	7	8	9

	<u>Drainage/Roughness/Rutting</u>			
	Condition		Description	
erity	No Defects	0	Wide, deep ditches with no obstructions, smooth ride, no rutting, no potholes.	
	Minor Defects	1	Drainage may be obstructed, < 1" rutting, minor roughness.	
Seve	Moderate Defects	2	Poor drainage, 1-2" rutting, noticeable roughness, potholes < 6" wide.	
	Major Defects	3	No drainage; > 2" rutting; potholes 6-12" wide create roughness requiring reduced speeds.	

CONCRETE RATING SHEET

Spalling of Joints

Extent (% joints)

	No Defects	Low <10%	Med 10-20%	High >20%
	Low Spalls < 3"	1	2	3
Severity	Med Spalls 3-6"	4	5	6
	High Spalls > 6"	7	8	9

Broken Slabs

Extent (% slabs)

	No Defects	Low <5%	Med 5-15%	High >15%
	Low-no more than 3 pieces, no spalling/faulting	1	2	3
Severity	Med-broken into >3 pieces, spalling/faulting <1/4"	4	5	6
	High-4 or more pieces, spalling/faulting >1/4"	7	8	9

Transverse Cracks

Extent (% slabs)

		Exterit (70 Slaus)				
	No Defects	Low <10%	Med 10-20%	High >20%		
	Low-Cracks < 1/8"; no spalling/faulting	1	2	3		
Severity	Med-Cracks 1/8- 1/2"; spall <3", fault >1/4"	4	5	6		
	High-Cracks > 1/2"; spall >3", fault >1/4"	7	8	9		

Joint Seal Damage

Extent (%joints)

	Exterit (70joints)				
No Defects	Low <10%	Med 10-20%	High >20%		
Low <10% joint length	1	2	3		
Med 10-50% joint length	4	5	6		
High >50% joint length	7	8	9		

<u>Faulting</u>

Extent (Length)

	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 1/2"	1	2	3
Severity	Med 1/2-1"	4	5	6
	High > 1"	7	8	9

Patch Deterioration

Extent (Area)

		Exterit (Alea)				
	No Defects	Low <10%	Med 10-30%	High >30%		
	Low-no fault, no settle at perimeter	1	2	3		
Severity	Med-fault & settle <1/4" at perimeter	4	5	6		
	High-fault & settle >1/4" at perimeter, cracked patch	7	8	9		

Corner Breaks

Extent (% of slabs)

		Extorit (70 or orabo				
	No Defects	Low <10%	Med 10-20%	High >20%		
	Low-corner cracks, no spalling or faulting	1	2	3		
Severity	Med-crack slightly spalled & faulted <1/4"	4	5	6		
	High-crack highly spalled & faulted >1/4"	7	8	9		

Longitudinal Cracks

Extent (% slabs)

	No Defects	Low <10%	Med 10-20%	High >20%
٠	Low-Cracks < 1/8"; no spalling/faulting	1	2	3
Severity	Med-Cracks 1/8- 1/2"; spall <3", fault >1/2"	4	5	6
	High-Cracks > 1/2"; spall >3", fault >1/2"	7	8	9

Map Cracks

Extent (Area)

		Extent (Alea)				
	No Defects	cts				
	Low-small connected cracks, no spalling	1	2	3		
Severity	Med-connected cracks, no spalling	4	5	6		
	High-large connected cracks with surface spalling	7	8	9		

Deficiency Ratings With Associated Remaining Service Life

Asphalt Rating Sheet

Fatigue Cracking		Edge Cracking	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20
1	10	1	12
2	8	2	10
3	6	3	8
4	8	4	10
5	6	5	8
6	4	6	6
7	6	7	8
8	2	8	6
9	0	9	4

Transverse Cracking		Utilit	y Cuts
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20
1	14	1	14
2	12	2	12
3	10	3	10
4	12	4	12
5	10	5	10
6	8	6	8
7	10	7	10
8	6	8	6
9	2	9	2

Longitudinal Cracking		Block Cracking	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20
1	14	1	12
2	12	2	10
3	10	3	8
4	12	4	10
5	10	5	8
6	8	6	6
7	10	7	12
8	8	8	6
9	6	9	2

Drainage/Roughness/R utting			
Distress Rating	Remaining Service Life		
0	20		
1	16		
2	10		
3	4		

Concrete Rating Sheet

Spa	alling	Broke	Broken Slabs		se Cracks
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	20
1	15	1	15	1	18
2	12	2	12	2	15
3	10	3	10	3	12
4	12	4	12	4	15
5	10	5	10	5	10
6	8	6	8	6	6
7	10	7	10	7	10
8	6	8	6	8	4
9	0	9	0	9	0

Joint Se	al Damage	Faulting		Patch De	terioration
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	18
1	16	1	15	1	16
2	14	2	12	2	14
3	12	3	10	3	12
4	14	4	12	4	12
5	10	5	8	5	10
6	8	6	6	6	8
7	12	7	10	7	10
8	8	8	4	8	6
9	6	9	0	9	0

Corne	r Breaks	Longitudinal Cracks		Мар	Cracks
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	18	0	20	0	20
1	16	1	18	1	18
2	14	2	15	2	15
3	12	3	12	3	12
4	12	4	15	4	12
5	10	5	10	5	10
6	8	6	6	6	6
7	10	7	10	7	10
8	6	8	4	8	4
9	0	9	0	9	0

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE IN YEARS (Asphalt & Concrete Roads)

	FAILED	POOR	FAIR	GOOD	EXCELLENT
RSL	0	1 - 6	7 - 12	13 - 18	19 - 20

Deficiency Ratings With Associated Remaining Service Life

Native Primitive Improved Rating Sheet

4

Remaining

Service

Life

10

8

Dust

Distress

Rating

0

1

Cross	Section	Ru	ıtting
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10
1	7	1	9
2	5	2	7
3	0	3	5
	•	4	7
		5	4
			_

Roadside Drainage				
Distress Rating	Remaining Service Life			
0	10			
1	8			
2	4			
3	0			

Potholes			
Distress Rating	Remaining Service Life		
0	10		
1	9		
2	7		
3	5		
4	7		
5	4		
6	3		
7	4		
8	2		
9	0		

	Corrugations				
	Distress Rating	Remaining Service Life			
1	0	10			
1	1	9			
1	2	7			
Ī	3	7			
	4	6			
	5	5			
	6	5			
	7	4			
	8	3			
	9	0			

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE IN YEARS (Gravel & Native Roads)

	FAILED	POOR	FAIR	GOOD	EXCELLENT
RSL	0	1 - 2	3 - 4	5 - 7	8 - 10

Gravel Rating Sheet Rutting

Cross		
Distress Rating	Remaining Service Life	Distre Ratin
0	10	0
1	7	1
3	5	2
3	0	3
		4
		5
		6
		7

···· 9 ···· <u>· · · · · · · · · · · · · ·</u>					
tting	Roadside	Drainage			
Remaining Service Life	Distress Rating	Remaining Service Life			
10	0	10			
9	1	8			
7	2	4			
5	3	0			
7					
4					

Potholes		
Distress Rating	Remaining Service Life	
0	10	
1	9	
2	7	
3	5	
4	7	
5	4	
6	3	
7	4 2	
8	2	
9	0	

Dust			Corrugations	
Distress Rating	Remaining Service Life		Distress Rating	Remaining Service Life
0	10	ſ	0	10
1	8	ĺ	1	9
2	6		2	7
3	2	I	3	7
		ĺ	4	6
			5	5
		I	6	5
		ĺ	7	4
		ĺ	8	3
		ſ	9	0

Loose Aggregate		
Distress Rating	Remaining Service Life	
0	10	
1	9	
2	8	
3	7	
4	8	
5	7	
6	6	
7	5	
8	3	
9	0	